



The Blurb



*Newsletter of The Phil-Mont Mobile Radio Club
66 Years of Public Service, 1949 to 2015*

Volume 67 Number 4

www.phil-mont.org

April 2016

***The Board meets on April 6th,
The General Membership Meeting Is on the 13th at Giant in Willow Grove***

Happy April! Bob Thomas, W3NE, rings in the new month with a fascinating article about DigiWiz...

DIGIWIZ
Latest digital format
Bob Thomas, W3NE

The International Digital Investigative Operations Team (IDIOT) just announced their official release of still one more digital format (DF) for use in the amateur radio service (ARS). This one, called *DigiWiz* (DW), is the 185th digital format IDIOT-approved and currently in use by hams worldwide. *See page 5*

No fooling!

**PhilMont is happy to Welcome new member *Robert Swayne K3NIE*
Philadelphia, PA, who holds an Extra Class ticket**



*Spring, the season for love... and allergies, lawn mowing, car washing, exterior maintenance...
Better than snow though!*

<i>The Blurb</i> is published monthly by and for the members of The PHIL-MONT MOBILE RADIO CLUB, Inc., whose purpose is to promote Amateur Radio in general, and Mobile Radio in particular. Copying and quoting is permitted with a credit line. We gladly exchange publications with other amateur radio clubs. Requests should be sent to the Editor: Rick DeVigiliis ND3B@ARRL.net Subscriptions are available to non-members for \$12, addressed to the Treasurer. Labels and mailing: KB3IV Submissions deadline: All copy must be in the hands of the Editor by the 20th of the previous month.		Directors: N3QV(17) W3RM(17) K3HWG(17) WA3KIO(16) KB2ERL(16) ND3B(16) W3STW(A)	Contact Phil-Mont: P.O. Box 404 Warminster, PA 18974 http://www.phil-mont.org Website: Eric N3QV & Andrew KC2PMW For club information: Contact any club officer, or the repeaters listed below. Address or club directory changes and articles for the membership e-mail list should be sent to: KB3IV
		Sunday Morning Net Schedules • 2 Meter/ 70cm Net..... at 0930L on W3QV repeater • 10-on-10 Net at 1000L 28.393 MHz USB (±QRM) • 75 meter Net at 1020L 3.993 MHz LSB • ARES at 2100L on the W3QV repeater	
Committees Blurb folding: KB3IV & N3GLU Directory: KB3IV Field Day: KC2PMW Fusion Coord: NC3U	Internet: N3QV & KC2PMW Membership: K3HWG Net Control: KB3IV	Program: W3AOK Publicity: W3RM Refreshments: W3AOK Repeater: W3AOK	Scholarship: W3RM Sunshine: N3GLU VE Program: NS3K Welcome: N3UBY Youth: KC2PMW

All visitors are welcome!

The club meets at 7:00 PM on the *second* non-holiday Wednesday each month except July and August at Giant Supermarket, 315 York Rd, Willow Grove, PA
 Maps and directions are available at www.phil-mont.org.

License Examinations are held on the fourth **non-holiday Thursday** each month at **Community Ambulance Association, 1414 E. Butler Pike, Ambler PA 19002**
 Registration begins at 7:00 P.M. Applicants should contact Jim McCloskey NS3K at 215-275-2979 or jmccloskey@msn.com for the latest information.

Club Stations W3QV/R: The Jim Spencer Memorial Repeater System
 Ridge & Port Royal Avenues, Philadelphia, PA **Trustee: W3RM**
147.03 MHz + PL 91.5 Hz 444.80 MHz + PL 186.2 Hz
 Reach us on EchoLink through W3QV-R
W3AA Trustee: WU3I
W3EM: Field Day/special event station Trustee: N3QV

The Officers

President: WA3GM Greg Malone wa3gm@yahoo.com
Vice President: W3AOK Bill Popovic w3aok@verizon.net
Treas: KB3IV Ed Masarsky kb3iv@comcast.net
Secretary: WU3I Steve Hoch wu3i@arrl.net

The Prez Sez ...



Hello Phil-Mont-
Spring has sprung and I am just getting back from my winter stay in Florida so this month's article will be brief.

The WX was beautiful about 99.5% of the time. The only rain we had was one morning we had a Tornado come thru about 10 miles to the west of us in Cocoa Beach. High wind and rain for about 2 hours and then it cleared up and the rest of the day was great. No damage or injuries so that is the important thing.

My remote operation worked really great during my stay. I was able to work some DX along with a RTTY Contest. I was even able to assume Net Control Duties two Sundays ago on the PMRC 75 meter phone net so thanks to Barry K3EUI for letting me operate as net control remotely.

A big THANK YOU to Our March speaker Eastern PA Asst. Section Mgr Tom Mills, AF4NC. Tom talked about QSL'ing and QSL cards and I was told that the presentation was very good. I have attended Toms other presentations and he is a great speaker.

Don't forget to order your Phil-Mont jackets and hat. You never know who you will run into while wearing the colors. Any questions please contact Bill K3HWG for more information.

Speaking of Bill K3HWG congrats on your Transplant. Glad to see that all is going well and

we wish you a speedy recovery. Maybe we will get Bill to be a guest lecturer at an upcoming meeting to explain the transplant process.

Time now to start thinking about Field Day folks. We will start our discussion and planning at the next meeting so bring your thoughts and ideas so we can kick them around.

Barry K3EUI was tentatively scheduled to be our speaker for the April meeting but that has been pushed back to June. Barry will talk about the PC Audio Scope.

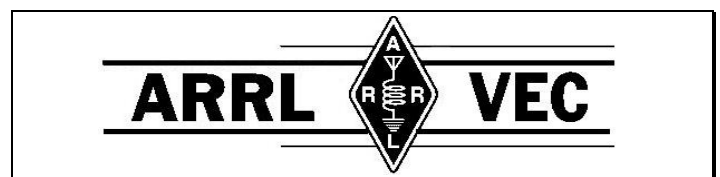
If anyone has any suggestions for a speaker or would like to speak at one of our meetings please let any of the club officers or board members know. Your input is vital and we welcome all suggestions.

Don't forget to sign up for the Phil-Mont Yahoo Group. This is a good way to share ideas amongst the membership. Sal NC3U is the moderator the group. For more info and to join the group contact Sal.

Well that's all from here for now. A lot of things to get done here since our return and look forward to seeing you at the next meeting.

Thank you for your support.

73, Greg WA3GM



***Thursday evening session is on
the 28th this month.***

As always, many thanks to our VE team!

Phil-Mont Birthdays & Tidbytes

APRIL BIRTHDAYS

01 Mark Thomas - KC3DRE

05 Rob Moore – N2RM

06 Andrew Furlong KC2PMW

08 Jackie Chedeville (XYL W3GQD)

Joe Fitzmyer - KC3ECE

10 Michael Elmaleh - K3HIJ

12 Larry Bennett - NJ3Z

15 Mai-Lin (XYL N3BKR)

16 Janet Souza - W3JLS

20 Harrison W. Gift-K3HWG

21 Michael Vincent N3TOX

Brad King - WB3BPI

22 Susan Hoch (XYL W3UI)

Jack Livezy - KC3EOO

28 Gwen Patton - NG3P

30 Al Kaufmann - K3ZMJ

MEMBERSHIP STATS

At press time P.M.R.C. has:
 111 FULL PAID MEMBERS
 11 FAMILY MEMBERS
 2 YOUTH MEMBERS
 1 HONORARY MEMBER
 1 PENDING MEMBER

Tech committee

New 2M receiver is in. needs to be wired. UHF has been hanging up to be investigated.

Treasury report

Scholarships are funded for 2016. Thanks to all for your donations. We got money. Site fee paid for Field day.

Website

Go Daddy website builder under review.

New Business

KC3BIW Tom Knight has asked for the club's assistance with a special event in February. It is a Scout Event in Valley Forge Park. More info to follow. I expect you Scouts to help out. To borrow from the USMC...ONCE A SCOUT FOREVER A SCOUT.

Old Business

W3STW reports no bus trip to ARRL HQ (with thanks to the soup Nazi). Contact Warminster they have one underway.

At 7:66 KB3IV Made the motion to close the meeting. WA3KIO seconded. There was a rush for the door.

General Meeting 3/9/2016

W3AOK opened the General Meeting at 7:17 PM, there were 17 Members and 4 guests.

NS3K reported VE Session 3/12/16 at the usual place.

KC3BRA reported the fusion repeater and wires link were working well.

KB3IV reported the echo link problem has been resolved and Apple devices can connect and Android devices should connect on one try.

K3HWG and his new kidney are home and doing well.

Please contact Warminster ARC for the bus trip to ARRL HQ. Point of contact is TONY W3FLH.

From the Secretary

Board Meeting 3/2/2016

W3AOK opened the Board Meeting. In attendance were KB3IV, KB2ERL, W3STW, WA3KIO and WU3I.

The Program was presented by Tom Mills AF4NC assistant Section Manager on QSLing and QSL Cards.

Thanks to Tom for a fine Program.

DigiWiz *continued from cover*

DigiWiz is the invention of Dr. Lester Messor, Chairman Emeritus of Remedial Arithmetic at Frankford University (FU). Professor Messor had previously attained international notoriety after revealing his 2004 invention of Zero-Deviation FM; a concept so advanced it has since been secretly suppressed by QST and all manufacturers of VHF/UHF FM products because it would make them obsolete and devastate the existing market for Asian FM transceivers. The Professor is presently in hiding because of death threats from two Chinese manufacturers, but that has not silenced him about DW! In a recent interview by Amateur Radio News Line (ARNL), he said, unable to suppress a vague smile, "Inspiration for my new digital format came to me while I was standing in repose, staring at a blank wall in the FU men's room." That chance moment of insight naturally led to the name his invention, "DigiWiz."

The underlying principle of DW is periodic relocation of the state of every third digital bit (ETDB) in a serial data stream (SDS) to the next available zero bit (NAZB), i.e., to the next subsequent bit ordinarily represented by a binary zero (BZ). This is a valid operation, of course, since there cannot be any useful information in a bit if it is in a zero state. Therefore, that simple transformation can be accomplished any number of times without altering the effect of the original data stream in any way while substantially reducing data rate. The mathematical expression for bit transposition is expressed as:

$$DW = ETDB + \delta \leftrightarrow NAZB$$

where δ = Indeterminate-Interval (I-I), sometimes referred to as (I-Yi)

Relocation of ETDB to the NAZB in the data stream also simultaneously sets a new Modification Bit (MB) from a logic zero to a one. The state of the MB enables recognition of the modified NAZB by decoders to ensure correct extraction of the NAZB. It also enables implementation of Reverse Error Correction (REC) for improved reliability in high noise environments. When DW is used in conjunction with the new, popular FreeDV system, ordinary phone transmissions occupy an RF

bandwidth (RFBW) of only 40 Hz! Compression ratios of up to 800:1 have been achieved with many of the other well-known digital systems. Europeans have applied DW to Tier II-DMR (Digital Mobile Radio), where it has yielded a reduction of channel width from the normal 6.25 kHz down to 3.35 kHz, doubling repeater capacity for QSOs running DMR

The practical value of DigiWiz also has been amply demonstrated for the last six months on 20 meters with rigorous tests made by more than 68 advanced ham operators under auspices of the IDIOT. It was also used with great success earlier this year by the Federal Arctic Research Taskforce (FART) where it played a key role in the investigation of polar warming caused by migration of bovine methane clouds.

When tuning the bands with a conventional receiver DigiWiz is readily identifiable by its characteristic burbling sound, like running water. The waterfall display of an SDR shows it in an unmistakable pattern.

Owners of Ham Radio Deluxe (HRD) announced that DW will be added to the popular HRD Digital Master (DM) package (formerly DM-780). It will be available as a downloadable patch for current HRD DM users, and DW will be fully integrated in the next DM major update, v.88.5.9+. DigiWiz also can be obtained license-free directly from the ARRL on a DVD with all the other 184 known digital formats working under Linux, Windows 10, TRS-50, and Altair operating systems. The cost from ARRL is \$2.95 plus \$18 .95 shipping and handling. An Apple iOS version of DW is scheduled for release in late 2018

With its numerous advantages and wildfire acceptance throughout the ham community, we salute Professor Messor as amateurs around the world build upon the positive results of his invention in rigorous DW field testing, and verification by participants in Phil-Mont's Digital Education Net (DEN).



New SEPTA route?

April at Phil-Mont

3 Sun WA3GM
6 Wed Board Meeting
 Gulf war Ended 1991
10 Sun NC3U
13 Wed Membership Meeting
17 Sun KC3DII
22 Fri Passover
24 Sun K3XS
26 Tue PA Primary election
28 Thur VE session

***Don't forget the ARES net on Sunday nights and
the Digital net on Tuesday nights.***

--... ..-- .. . -. -.. ...-- -...

For Sale

***1/8" (290#) & 3/16" (380#) Dark Olive Drab
Braided Cord · 100% Polyester/Dacron Knit
Braided. Nice stuff! Tough and long lasting · UV
Resistant and Low Stretch Proudly Made in the
U.S.A.! Contact Steve WU3I at wu3i@arrl.net or
215-605-6074***

FOR SALE

Clipperton L amplifier
10-15-20-40-80-160 Meters. Has 4 X 572B tubes
installed new in 2012 (matched Taylor tubes Have
reciept and old tubes)

Amp has New Power supply board installed from
Harbach Electronics and AMP Supply Tuned input
installed.

Amp will work well with newer rigs because of the
tuned input. No Buffer interface needed. Have
Manuals.

10 meter MOD is DONE! Output 700 watts on 80
and 600 on 10. price \$500.00 FIRM Will DEMO
at My QTH.

Contact WU3I STEVE at 215 605 6074 this is my
cell please do not bother the XYL on the home line.

First Class Mail

The Phil-Mont Mobile Radio Club, Inc
1700 Street Rd. Apt. H3, Warrington PA, 18976

The Blurb